

What is claimed is:

1. A hand-guided sander having a housing (12) whose size is essentially limited to that of a base (38) of a sanding plate (30),  
5 wherein the housing (12) is equipped to accommodate a rechargeable battery unit (28).
2. The sander as recited in claim 1,  
characterized by means of a rechargeable battery unit (28) equipped with  
10 lithium-ion cells.
3. The sander as recited in claim 1 or 2,  
wherein the height (26) of the housing (12) perpendicular to the base (38) is at  
most as great as its longitudinal span (24) along the base (38).  
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4. The sander as recited in one of the preceding claims,  
characterized by means of a sanding plate (30) that is integrally joined to its  
support flange (32), to oscillation feet (34), and to their mounts (36) oriented  
toward the housing.  
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5. The sander as recited in one of the preceding claims,  
characterized by means of a motor (14) oriented perpendicular to the sanding  
plate (30).
- 25 6. The sander as recited in claim 5,  
characterized by means of an electronic unit (18) that is oriented with a flat side  
(58) parallel to the sanding plate (30).
7. The sander as recited in one of claims 1 through 4,  
30 wherein a motor (14) is oriented parallel to the sanding plate (30).

8. The sander as recited in claim 7,  
characterized by means of an electronic unit (18) that is oriented with a flat side  
(58) perpendicular to the sanding plate (30).

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9. The sander as recited in one of the preceding claims,  
characterized by means of a transmission (50, 52) that is situated between the  
motor (14) and a sanding drive unit (16) of the sanding plate (30) and has a  
transmission ratio of at most 3.

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10. The sander as recited in one of the preceding claims,  
characterized by means of a sanding plate (30) that has a symmetry axis (72),  
which extends through its center of mass (78) and on which a support point (76)  
of the sanding plate (30) is situated.

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11. The sander as recited in one of the preceding claims,  
wherein the housing (12) has an electrical connection (56) for connecting to a  
charger (88).

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12. The sander as recited in claim 11,  
wherein the electrical connection (56) is suitable for assuring that an operating  
voltage is supplied in at least one operating mode.

13. A sander cradle,

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wherein a charging connection (82) is provided for connecting to a charger (88)  
and has the capacity to be activated when a sander (10) is placed onto it.

14. The sander cradle as recited in claim 13,  
wherein a holder (84) is provided for sanding accessories.

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15. A sander housing for containing at least one motor (14), a sanding drive unit (16) for a sanding plate (30), and an electronic unit (18), and having a base (46) for being attached to a sanding plate (30), whose longitudinal span (24) is at least as great as a height (26) of the housing perpendicular to the base (46),  
5 characterized by means of a receptacle for a rechargeable battery unit (28).

16. The sander housing as recited in claim 15,  
characterized by means of a divided plastic casing having a first and a second housing part (40, 42), in which means are provided for the insertion of the motor  
10 (14) and/or the electronic unit (18) and/or the rechargeable battery unit (28) and/or a transmission (50, 52) and/or a sanding drive unit (16) for the sanding plate (30).